

# Energy Cost and Features Report

**Property:** Client Name  
Address  
Anchorage, Alaska

**Rater:** Energy Rater  
Energy Rating Company

**House:** Single Family  
Living Floor Area: 1,500 square feet  
Attached Garage, 500 square feet

**Rating:** BEES

## Envelope Efficiency

Floor Insulation	R-21.3 *
Wall/Door Insulation	R-16.4 *
Ceiling Insulation	R-30.2
Window U-Value	U-0.30
Window SHGC	0.34
Window to Wall Ratio, Living Space	7.3%
South Facing Window Area	72 square feet
Air Leakage	1.8 Air Changes per Hour at 50 Pascals 0.12 Air Changes per Hour Natural

\* Includes the insulating value of the ground in contact with these envelope components.

## Space Heating System

Fuel	Natural Gas
System Type	Boiler
Model	Nordyne
Efficiency	95%
Btu/hr Output	16,700 - 54,000 Btu/hr
Primary Htg. Sys. Design Load	48,126 Btu/hr
Garage Htg. Sys. Design Load	0 Btu/hr
Supplemental Fuel	None
Thermostat Setting	70.0 degrees F
Setback Thermostat	Yes, Controls Entire Home

## Water Heater

Efficiency	90%
Location	Conditioned Space
Fuel Type	Natural Gas

## Space Cooling System

None Present

## Ventilation

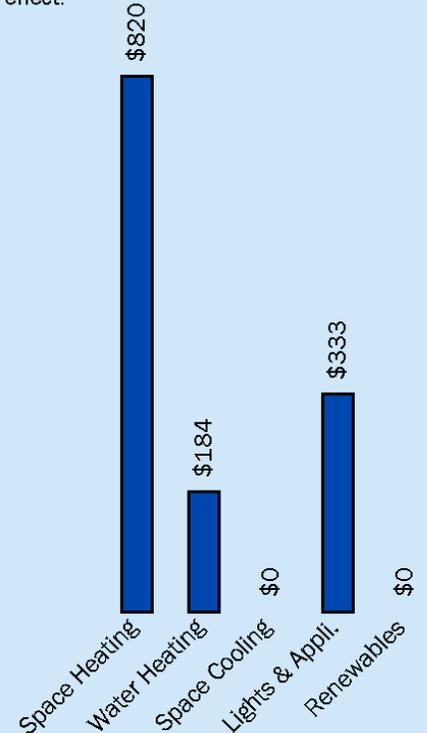
System Type	Heat Recovery Ventilator
Required Ventilation	55 CFM
Measured Ventilation	80 CFM

## Other

Number of Bedrooms	3
Clothes Dryer Fuel	Natural Gas
Cooking Range Fuel	Natural Gas
Oven Fuel	Natural Gas
Miscellaneous Lights/Appliance Use	Average
CAZ Test Normal Conditions	Pass

## Estimated Annual Energy Costs

Actual use and costs may vary from these estimates depending upon weather conditions, occupant life styles and utility rates currently in effect.



Electricity: \$0.2259/kWh, Natural Gas: \$1/ccf  
 Space Heating: 112 kWh of Electricity, 798 ccf of Natural Gas  
 Water Heating: 185 ccf of Natural Gas  
 Space Cooling:  
 Lights & Appliances: 1,475 kWh of Electricity

**Additional Information:**

VENTILATION WARNING: The measured air tightness of this home indicates that it may not provide sufficient ventilation air (for acceptable indoor quality) as defined by ASHRAE 62.2 2010, without adequate mechanical ventilation equipment. If whole house mechanical ventilation equipment has been installed, it is recommended that it be properly maintained and operated. If no whole house mechanical ventilation equipment has been installed, it is strongly recommended that the homeowner consider an investment in this improvement. (A test of the building's ventilation air rate would help determine the importance of a mechanical ventilation system in this home.)

The entered EnergyFactor for the DHW heater is significantly different from the library value which could be a source of error in the energy model.

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